Resources for the new Curriculum

Computing: Programming, Hardware & Software

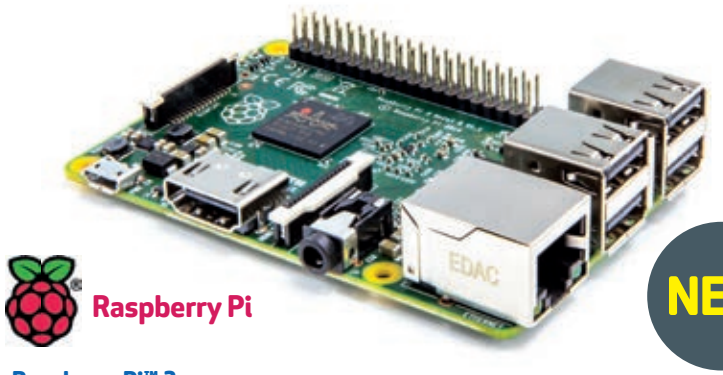
HOPE EDUCATION

Inspire · Create · Educate

KEY POINTS:

- Designing and writing programs to accomplish specific goals
- Emphasis on practical experience, using a variety of software on a range of devices
- Learning about algorithms
- Using logical reasoning to correct errors and predict behaviour

The Raspberry Pi is a great inexpensive way to teach programming through all stages of the curriculum. It is a credit card sized computer, designed by the Raspberry Pi Foundation and manufactured in the UK, that plugs into your TV and keyboard. It can be used for many of the things that your desktop PC does, like spreadsheets, word processing and games.



Raspberry Pi

NEW

Raspberry Pi™ 2

• The new Raspberry Pi™ 2 Model B is 6x faster than the previous model • Features include: Broadcom ARMv7 Quad Core Processor • Twice as much memory - 1GB RAM so you can now run bigger and more powerful applications • Identical board layout and footprint as the Model B+ so all cases and add-on boards designed for that are fully compatible • 40 general input/output(GP10) pins enable backward compatibility with previous Raspberry Pi™ versions • Connect a Raspberry Pi™ camera and touch screen display (each sold separately) • Stream and watch HD video output at 1080P • Micro SD slot for storing information and loading your operating systems • Advanced power management enabling connection of more power hungry USB devices directly to the Raspberry PI™ (requires 2 Amp micro USB power supply) • Ethernet port to quickly connect to the Internet • Combined 4-pole jack for connecting your stereo audio out and composite video out

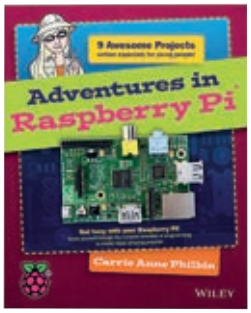
• **Direct Delivery – up to 7 days**

HFQ1455443 each **£26.79**

Raspberry Pi™ 2 Model B+ Starter Kit

• Starter kit designed to get Raspberry Pi™ booted up • Kit comes with Raspberry Pi™ 2 Model B+ • SD card with operating system • clear case and full user guide • Simply add your keyboard, mouse, monitor and cables • Power supply with plug

HFQ1384416 kit **£49.99**



Adventures in Raspberry Pi

Written for 11 to 15 year-olds and assuming no prior computing knowledge, this book uses the credit-card-sized Raspberry Pi computer to explain fundamental computing concepts. Young people will enjoy going through the book's nine fun projects while they learn basic programming and system administration skills, starting with the very basics of how to plug in the board and turn it on. Written by Carrie Anne Philbin, a secondary school teacher of computing who advises the U.K. Government on the revised ICT Curriculum.

• **Direct Delivery – up to 7 days**

HFQ1290561 each **£13.95**

Data Wiz is an affordable and highly versatile data logger designed with primary school children in mind. Data logging allows the focus to be taken away from rercording results and gives pupils more time to interpret and analyse their data scientifically.

BEST SELLER

EXCLUSIVE

Data Wiz

The Data Wiz Data Logger provides an exciting way to capture and record data during science investigations. A compact device designed specifically for small hands, Data Wiz works as a 'stand alone' unit enabling pupils to measure temperature, sound and light levels. Use it with a PC to record and plot readings from 2 or more sources. A range of external sensors can be connected to monitor a broad range of values such as pulse, breathing rate and force.

Comes packaged with:

- Data Wiz data logger
- Built-in temperature, light and sound sensors
- Full PC software suite
- External temperature probe
- USB connection cable
- Full user manual on CD
- Covers a range of activities across the KS2 science curriculum
- Interactive graphical user interface
- Plots data into various graphs
- View sensor readings in animated flash files
- Data logging capacity for 1 week

HFQ48620845 each **£154.95**

DATA WIZ

FREE NEXT DAY DELIVERY* No minimum spend

PRICE MATCH PROMISE*

NO HASSLE RETURNS* See terms & conditions

Helping you prepare for the new Curriculum

Dizzy Tron

Features:
- L13 x W13 x H8.5cm
- Rechargeable lithium-ion batteries included
- Movement in 15cm steps
- Memory of up to 50 steps
- Simple button press movements
- Lights, sounds and phrases confirm button presses, giving feedback on the completion of a course
- Removable (magnetic) accessories to create a number of different characters
- Includes pen slot for a Berol pen; enabling the tracing of steps and drawing of simple geometric shapes (leading into early KS2)
- Includes removable remote control; this can also be used as a remote controlled vehicle (up to 30 feet)
- Interacts with the whiteboard meaning that (if purchased with software) Dizzy can:
- Be controlled through the touch of the IWB
- Have movements replicated on screen
- Have speed settings amended to provide differentiation

HFQ88200138 each **£49.99**

Floor robots are used in the classroom as an introduction to control, directional language and early programming for young children. With child friendly features these attractive robots are their own unique character and have their own place in the classroom. The mats and accessories provided mean that they are excellent learning aids for many curricular areas; in particular Maths and English.

SPECIAL OFFER
Buy 2 Dizzy Trons and receive the Treasure Island Mat FREE!

Dizzy Tron Special Offer

Buy 2 Dizzy Trons and receive the Treasure Island Mat FREE!

HFQ1000832 pack **£114.99**

Dizzy Tron Software

Dizzy Software enables interaction through the use of an interactive whiteboard; this means that Dizzy can be controlled through the touch of the screen. Movements on the floor are replicated on screen in either 2D or 3D view, opening up a whole new world for the user.

With a child log-on area it will be easy for teachers to keep track of each child's progress, providing an excellent assessment tool. The software provides rewards on the completion of each level and, like Dizzy, is bright, eye catching and appealing to children.

An excellent addition to the Dizzy range and a fantastic introduction to early ICT and control skills. Unlimited user license.

HFQ88200144 each **£99.99**

Dizzy Tron Starter Pack

Everything you need to get started with Dizzy.

The pack includes:
- 1 x Dizzy Tron
- 1 x PVC Pocket Mat (4 x 4)
- 1 set of wipe clean cards
- 1 set of sequencing cards
- 1 x Busy Street mat
- 1 x Treasure Island mat

HFQ1000835 pack **£109.99**

The unique features of Roamer™ mean that students can use their different learning styles to explore how basic programs work. Roamer™ has a speech capability and can ask questions, give information, offer encouragement and also warn when it is feeling tired and the batteries need recharging.

Roamer™

The most advanced educational robot. This version is suitable for top juniors and lower secondary. It provides a fully flexible keypad where parameters can be changed and inputs and outputs programmed. Roamer™ speaks, providing vocal helpfiles to support students. Ideal for ICT, Maths and Science.

HFQ1098154	Junior	each **£94.99**
HFQ1098239	Early Years	each **£94.99**
HFQ1098304	Infant	each **£94.99**
HFQ1098322	Primary	each **£94.99**

Activity Mat 1m²

A fantastic mat that offers many possibilities. Find a safe route to school, pick all of the daffodils, or program a route to avoid all of the puddles. The possibilities are endless.

HFQ1098326	Multi	each **£31.95**
HFQ1098155	Plain	each **£27.99**

Roamer™ Starter Pack

These value packs consist of the following: Roamer™ (in whichever age range you select), high capacity rechargeable batteries, charger, behaviour CD and a multi-activity mat.

HFQ1098356	Early Years	pack **£249.85**
HFQ1098363	Infant	pack **£249.85**
HFQ1098390	Primary	pack **£249.85**

FOR OUR FULL RANGE OF COMPUTING RESOURCES PLEASE SEE OUR CATALOGUE PAGES 1417 -1464.

MAKE SURE YOU HAVE EVERYTHING YOU NEED FOR THE NEW CURRICULUM AND ORDER YOUR RESOURCES TODAY!

Call: **08451 20 20 55** Free Fax: **0800 92 91 39** Online: **www.hope-education.co.uk**

* For full terms and conditions please see our catalogue or website at www.hope-education.co.uk.